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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,352	09/30/2003	James P. Luther	HE0207	9397
21495 7:	590 08/18/2005		EXAMINER	
CORNING CABLE SYSTEMS LLC			KALIVODA, CHRISTOPHER M	
P O BOX 489				·
HICKORY, N	C 28603		ART UNIT PAPER NUMBER	
			2883	
			DATE MAILED: 08/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

•			1			
	Application No.	Applicant(s)				
	10/675,352	LUTHER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christopher M. Kalivoda	2883				
The MAILING DATE of this communication app	pears on the cover sheet with the c	correspondence address				
Period for Reply	VIC CET TO EVOIDE A MONTH	(C) FROM				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication () (35 U.S.C. § 133).	· .			
Status						
1) Responsive to communication(s) filed on 08 J	<u>uly 2005</u> .					
2a) ☐ This action is FINAL. 2b) ☑ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-35</u> is/are pending in the application						
4a) Of the above claim(s) <u>5-20 and 23-35</u> is/ar	e withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,21 and 22</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	ur alastian raquirament	•				
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>30 September 2003</u> is/	, – , , , – ,	<u>-</u>				
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	' '				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	,	·).			
	Adminier. Note the attached Office	Action of form P 10-132.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	la kana kana ang Pang					
1. Certified copies of the priority document2. Certified copies of the priority document		ion No				
3. Copies of the certified copies of the prior	• •					
application from the International Burea	•	ya ano madonar olago				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
	• •					
4						
Attachment(s)) Notice of References Cited (PTO-892)	4) Interview Summary	/PTO 413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>09/30/2005</u>. 	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Applicant's election of species A, embodiment 1, without traverse in a paper submitted on July 8, 2005 is acknowledged. The requirement is still deemed proper and therefore made final.

Claims 5-20 and 23-35 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on July 8, 2005.

Furthermore, Examiner agrees claim 1 is generic and inadvertently indicated it appeared not generic in the previous office action.

Claims 1-4, 21 and 22 are related to Species A, Embodiment 1 or generic and were examined.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cairns, U.S. Patent 6,439,778.

Regarding independent claims 1, 21 and 22, Cairns teaches a fiber optic connector (Fig 3 and 4 are left and right half of connector) comprising: a multi-fiber

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ferrule (col 4, lines 7-9 and Fig 3, ref sign 18) movably disposed within the connector (col 4, lines 26-29) having an end face (Fig 3, ref sign 34) and an opposed rear face (Fig 3, ref sign 30, left side), the ferrule having a plurality of optical fiber bores extending therethrough (col 4, lines 10-15) for receiving the end portions of respective optical fibers adjacent the end face, the end face defining a plane that is generally perpendicular to each of the optical fiber bores (Fig 3, ref sign 34), the ferrule further having at least one guide pin hole (Fig 3, ref sign 36) for receiving a guide pin (Fig 4, ref sign 84) to align the multi-fiber ferrule with a mating multi-fiber ferrule (Fig 4, ref sign 64), the guide pin hole defining an axis that is parallel to each of the optical fiber bores (Fig 3, ref sign 36 and 54, the axis of which are both parallel to each other), the fiber optic connector defining a longitudinal axis that is generally parallel to the axis defined by the guide pin hole or fiber bores (Fig 3, ref sign 36, the axis of which is parallel to longitudinal axis of connector which is the same as the ribbon fiber 54) and at least one force centering element or means (col 4, lines 15-20 and Fig 3, ref sign 44 curved portion) for applying a resultant biasing force to the ferrule in the direction of the longitudinal axis or axial direction parallel to each of the optical fiber bores such that the ferrule is not subjected to a moment about a lateral axis defined by the end face of the ferrule and generally perpendicular to the longitudinal axis.

While the reference does not explicitly state "moment about a lateral axis", it is obvious or well known to one of ordinary skill in the art at the time the invention was made that a moment is also known as a torque.

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Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have at least one force centering element or means for applying a resultant biasing force to the ferrule in the direction of the longitudinal axis or axial direction parallel to each of the optical fiber bores such that the ferrule is not subjected to a moment about a lateral axis defined by the end face of the ferrule and generally perpendicular to the longitudinal axis.

The motivation is to reduce the risk of misalignment between optical contacts and avoid torque or twisting forces which may result in improper alignment (col 1, lines 61-65).

Regarding claim 2, there is a spring seat (Fig 3, ref sign 44) having a forward portion (Fig 3, ref sign 48) that engages the rear face of the ferrule and a rearward portion (Fig 3, refs sign 44 curved portion) opposite the forward portion and wherein the rearward portion comprises the at least one force centering element.

Regarding claim 3, the force-centering element is disposed medially on the rearward portion (since it's symmetric) and comprises a protrusion that extends outwardly from the rearward portion (Fig 44, curved portion).

Regarding claim 4, the protrusion engages a coil spring (Fig 3, ref sign 40) that exerts the biasing force on the ferrule and wherein the forward portion engages the rear face of the ferrule to transfer the biasing force to the ferrule(Fig 3, ref sign 48).

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Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent 6,648,520 describes a fiber optic connector comprising a multi-fiber ferrule with end faces and defining a plurality of optical fiber bores extending therethrough. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Kalivoda whose telephone number is (571) 272-2476. The examiner can normally be reached on Monday - Friday (8:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cmk 08/15/05

> KAVEH KIANNI PRIMARY EXAMINER